SPRINT - 4

DATE	19/11/2022
TEAM ID	PNT2022TMID22887
PROJECT NAME	GAS LEAKAGE MONITORING &
	ALERTING SYSTEM FOR INDUSTRIES
MAXIMUM MARKS	2

PYTHON SCRIPT

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#IBM Watson IOT Platform

```
#pip install wiotp-sdk
import wiotp.sdk.device
import time import random
myConfig = {
    "identity": {
        "orgId": "ipetk0",
        "typeId": "nodemcu",
        "deviceId":"12345"
```

},

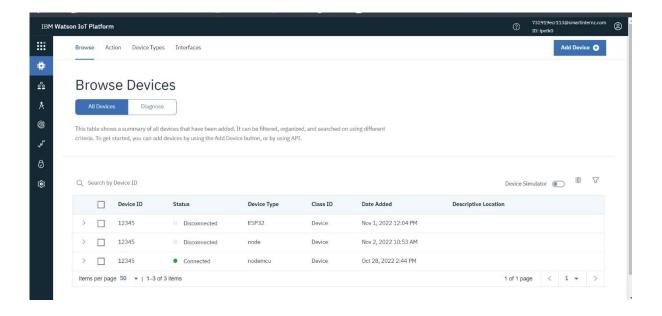
```
"auth": {
    "token": "12345678"
  }
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None) client.connect()
while True:
  gas=random.randint(200,1500)
tem=random.randint(0,100)
hum=random.randint(0,100)
pre=random.randint(12,25) if
gas<1000:
    san=("Normal")
s1=0 else:
    san=("Danger Leakage")
s1=1
  myData={'s':gas,"m":san,"st":s1,"pr":pre,"temp":tem,"hu":hum}
  #myData={'co2 level in ppm':gas}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData) client.commandCallback =
myCommandCallback time.sleep(2)
client.disconnect()
```

SCRIPT OUTPUT

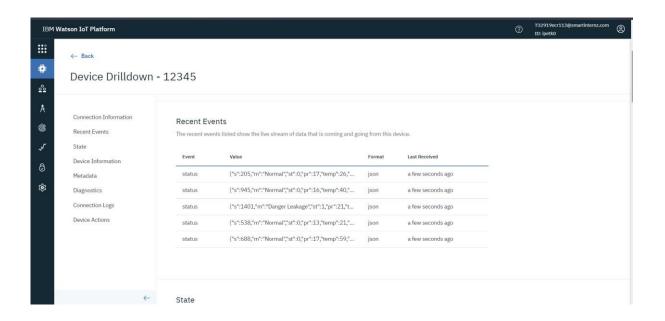
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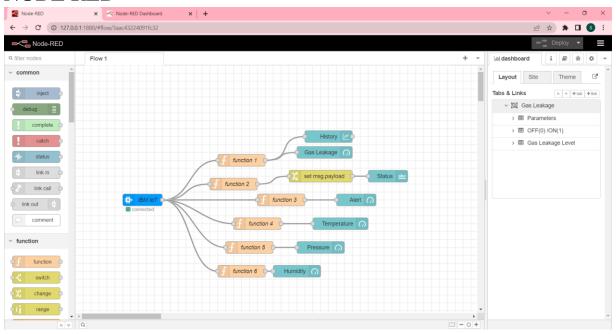
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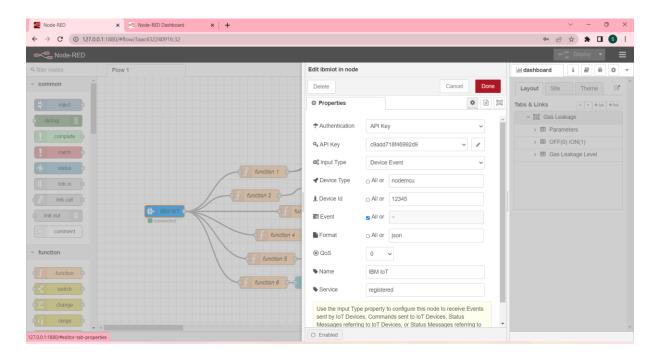


IOT WATSON OUTPUT



NODE RED





WEB APPLICATION USING NODE RED

